STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number:	<u>/0/669,78/A</u>
Source:	1FW16.
Date Processed by STIC:	8/30/06

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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Revised 01/10/06



IFW16

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/669,781A**DATE: 08/30/2006

TIME: 10:14:33

Input Set : F:\6031.79428 sequence.listing.ST25.txt

Output Set: N:\CRF4\08302006\J669781A.raw

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      5 <120> TITLE OF INVENTION: Phytase from Bacillus subtilis, gene encoding said phytase,
              method for its production and use
      8 <130> FILE REFERENCE: 79428
                                                                  see pp 1-10
     10 <140> CURRENT APPLICATION NUMBER: 10/669,781A
     11 <141> CURRENT FILING DATE: 2003-09-24
                                 do not insert alphabetical headings. The <u>CRF</u> software will insert them
     13 <160> NUMBER OF SEQ ID NOS: 36
     15 <170> SOFTWARE: PatentIn version 3.3
ERRORED SEQUENCES
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     20 <213> ORGANISM: Bacillus subtillis; Strain: B13
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                                                                              114
                                         Met Asn His Ser Lys Thr Leu Leu
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     34 tta acc gcg gcg gcc gga ctg atg ctc aca tgc ggt gcg gtg tct tcc
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     35 Leu Thr Ala Ala Ala Gly Leu Met Leu Thr Cys Gly Ala Val Ser Ser
     38 cag gca aag cat aag ctg tcc gat cct tat cat ttt acc gtg aat gca
                                                                              210
     39 Gln Ala Lys His Lys Leu Ser Asp Pro Tyr His Phe Thr Val Asn Ala
     40 25
                            30
                                                                              258
     42 gcg gcg gaa acg gaa ccg gtt gat acg gcc ggt gac gcg gct gat gat
     43 Ala Ala Glu Thr Glu Pro Val Asp Thr Ala Gly Asp Ala Ala Asp Asp
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     46 cct gcg att tgg ctg gac ccc aag act cct cag aac agc aaa ttg att
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     47 Pro Ala Ile Trp Leu Asp Pro Lys Thr Pro Gln Asn Ser Lys Leu Ile
     50 acg acc aat aaa aaa tca ggt tta gtc gtt tac agc ctt gat ggt aag
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     51 Thr Thr Asn Lys Lys Ser Gly Leu Val Val Tyr Ser Leu Asp Gly Lys
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     54 atg ctt cat tcc tat aat acc ggg aag ctg aac aat gtc gat atc cgt
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     55 Met Leu His Ser Tyr Asn Thr Gly Lys Leu Asn Asn Val Asp Ile Arg
     58 tat gat ttt ccg ttg aac ggc aaa aaa gtc gat atc gcg gca gca tcc
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RAW SEQUENCE LISTING DATE: 08/30/2006 PATENT APPLICATION: US/10/669,781A TIME: 10:14:33

Input Set : F:\6031.79428 sequence.listing.ST25.txt
Output Set: N:\CRF4\08302006\J669781A.raw

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60 105	110	115	120	
62 aat cgg tct ga	a gga aaa aat a	acc att gag att	tac gct att gat gga 49	8
63 Asn Arg Ser Gl	ı Gly Lys Asn T	Thr Ile Glu Ile	Tyr Ala Ile Asp Gly	
64	125	130	135	
		_	gac cat ccg att gca 54	:6
		-	Asp His Pro Ile Ala	
68 14		145	150	
		=	tac cac agt caa aaa 59	4
	=	=	Tyr His Ser Gln Lys	
72 155		160 xta 262 662 222	165 . qaq qqt qaa ttt qaa 64	2
- -			gag ggt gaa ttt gaa 64 Glu Gly Glu Phe Glu	: 4
75 IIII GIY LIYS IY	175 ara met v	ar in Gry Lys	180	
-		aaa aat gga tac	ata tcc ggc aaa aag 69	10
			Ile Ser Gly Lys Lys	•
80 185	190	195		
	aaa atq aat t	cc cag acg gaa	ggg atg gca gca gac 73	8
			Gly Met Ala Ala Asp	
84	205	210	215	
86 gat gaa tac gg	c agg ctt tat a	atc gca gaa gaa	gat gag gcc att tgg 78	6
87 Asp Glu Tyr Gl	y Arg Leu Tyr I	(le Ala Glu Glu	Asp Glu Ala Ile Trp	
88 22)	225	230	
			gga acg gtt atc gac 83	4
-	-		Gly Thr Val Ile Asp	
92 235		240	245	
			gaa gga ttg acg att 88	2
-	-	inr Arg Asp Ile	Glu Gly Leu Thr Ile	
96 250	255	tot sta ota	260 qca tca aqc caq qqa 93	. ^
			gca tca agc cag gga 93 Ala Ser Ser Gln Gly	. 0
100 265	270	27 27 Dea Mec	-	
				78
			y Lys Asn Lys Tyr Val	, 0
104	285	290	295	
	gc ata aca gac	qqt cct qaa ac	a gac ggg aca agc gat 10	26
			r Asp Gly Thr Ser Asp	
-	00	305	310	
110 aca gac gga a	t gac gtt ctg	ggt ttc gga ct	g ggg cct gaa tat ccg 10	74
			u Gly Pro Glu Tyr Pro	
112 315		320	325	
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		Asp Gly Glu As	n Ile Asp His Gly Gln	
116 330	335		340	
				.70
=	_		p Glu Arg Ile Ala Asp	
120 345	350	35		
		-		18
123 GIII TIE GIY P.	ie arg Pro Leu	AIA ASH GIU GI	n Val Asp Pro Arg Lys	

RAW SEQUENCE LISTING DATE: 08/30/2006
PATENT APPLICATION: US/10/669,781A TIME: 10:14:33

Input Set : F:\6031.79428 sequence.listing.ST25.txt

Output Set: N:\CRF4\08302006\J669781A.raw

124 365 370 375

126 ctg acc gac aga agc gga aaa taaacatgca aaaagcagct tatacaagct 1269

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135 <212> TYPE: PRT

136 <213> ORGANISM: Bacillus subtillis; Strain: B13



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PATENT APPLICATION: US/10/669,781A TIME: 10:14:33 Input Set: F:\6031.79428 sequence.listing.ST25.txt Output Set: N:\CRF4\08302006\J669781A.raw 310 220 Phe Gly Leu Gly Pro Glu Tyr Pro Phe Gly Ile Phe Val Ala Gln Asp 325 330 224 Gly Glu Asn Ile Asp His Gly Gln Lys Ala Asn Gln Asn Phe Lys Ile 340 345 228 Val Pro Trp Glu Arg Ile Ala Asp Gln Ile Gly Phe Arg Pro Leu Ala 355 360 232 Asn Glu Gln Val Asp Pro Arg Lys Leu Thr Asp Arg Ser Gly Lys 233 370 375 E--> 236 <210> SEQ ID NO: SEQ ID-NO:3 237 <211> LENGTH: 25 238 <212> TYPE: PRT 239 <213> ORGANISM: Bacillus subtilis (B--> 241 <400> SEQUENCE: 3 243 Leu Ser Asp Pro Tyr His Phe Thr Val Asn Ala Ala Ala Glu Thr Glu 244 1 247 Pro Val Asp Thr Ala Gly Asp Ala Ala 248 20 E--> 251 <210> SEQ ID NO: SEQ ID NO:4 252 <211> LENGTH: 32 253 <212> TYPE: PRT 254 <213> ORGANISM: Bacillus subtilis (14) --> 256 <400> SEQUENCE: 4 258 Leu Ser Asp Pro Tyr His Phe Thr Val Asn Ala Ala Ala Glu Thr Glu 259 1 262 Pro Val Asp Thr Ala Gly Asp Ala Ala Asp Asp Pro Ala Ile Leu Asp 263 20 25 E--> 266 <210> SEQ ID NO: SEQ ID NO:5 267 <211> LENGTH: 8 268 <212> TYPE: PRT 269 <213> ORGANISM: Bacillus subtilis 271 <400> SEQUENCE: 5 273 Tyr Tyr Ala Met Val Thr Gly Lys 274 1 E--> 277 <210> SEQ ID NO: -SEQ ID-NO+6 278 <211> LENGTH: 10 279 <212> TYPE: PRT 280 <213> ORGANISM: Bacillus subtilis **EX-> 282 <400> SEQUENCE: 6** 284 Glu Gly Glu Phe Glu Gln Tyr Glu Leu Lys 285 1 5 10 E--> 288 <210> SEQ ID NO: & EQ ID NO: 6 289 <211> LENGTH: 9 290 <212> TYPE: PRT 291 <213> ORGANISM: Bacillus subtilis E--> 293 <400> SEQUENCE: 7 295 Met Leu His Ser Tyr Asn Thr Gly Lys 296 1 E--> 299 <210> SEQ ID NO: SEQ ID NO: SEQ ID NO: 8

RAW SEQUENCE LISTING

TIME: 10:14:34

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     321 Ala Asn Glu Gln Val Asp Pro Arg Lys
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/669,781A

PATENT APPLICATION: US/10/669,781A TIME: 10:14:34 Input Set : F:\6031.79428 sequence.listing.ST25.txt Output Set: N:\CRF4\08302006\J669781A.raw 379 <212> TYPE: PRT 380 <213> ORGANISM: Bacillus subtilis (E) 382 <400> SEQUENCE: 14 384 Ile Ala Asp Gln Ile Gly Phe Arg Pro Leu Ala Asn Glu Gln Val Asp 385 1 10 388 Pro Arg Lys E--> 392 <210> SEQ ID NO: SEQ ID NO: 15 393 <211> LENGTH: 6 394 <212> TYPE: PRT 395 <213> ORGANISM: Bacillus subtilis > 397 <400> SEQUENCE: 15 399 Ala Asn Gln Asn Phe Lys 400 1 E--> 403 <210> SEQ ID NO: SEQ ID NO+16 404 <211> LENGTH: 5 405 <212> TYPE: PRT 406 <213> ORGANISM: Bacillus subtilis > 408 <400> SEQUENCE: 16 410 Val Arg Ala Phe Lys 411 1 E--> 414 <210> SEQ ID NO: SEQ ID NO:17 415 <211> LENGTH: 11 416 <212> TYPE: PRT 417 <213> ORGANISM: Bacillus subtilis >> 419 <400> SEQUENCE: 17 421 Leu Asn Asn Val Asp Ile Arg Tyr Asp Phe Pro 422 1 10 E--> 425 <210> SEQ ID NO: SEQ ID NO:18 426 <211> LENGTH: 15 427 <212> TYPE: PRT 428 <213> ORGANISM: Bacillus subtilis EX-> 430 <400> SEQUENCE: 18 432 Leu Asn Asn Val Asp Ile Arg Tyr Asp Phe Pro Leu Asn Gly Lys 433 1 10 E--> 436 <210> SEQ ID NO: SEQ-ID-NO:19 437 <211> LENGTH: 11 438 <212> TYPE: PRT 439 <213> ORGANISM: Bacillus subtilis (E)-> 441 <400> SEQUENCE: 19 443 Asn Thr Ile Glu Ile Tyr Ala Ile Asp Gly Lys 444 1 5 E--> 447 <210> SEQ ID NO: SEQ ID NO: 20 448 <211> LENGTH: 11 449 <212> TYPE: PRT 450 <213> ORGANISM: Bacillus subtilis → 452 <400> SEQUENCE: 20 454 Ser Gly Leu Val Val Tyr Ser Leu Asp Gly Lys 455 1 10

RAW SEQUENCE LISTING

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TIME: 10:14:34

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/669,781A

RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/669,781A**DATE: 08/30/2006
TIME: 10:14:34

Input Set : F:\6031.79428 sequence.listing.ST25.txt

Output Set: N:\CRF4\08302006\J669781A.raw

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RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/669,781A**DATE: 08/30/2006

TIME: 10:14:34

Input Set : F:\6031.79428 sequence.listing.ST25.txt

Output Set: N:\CRF4\08302006\J669781A.raw

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RAW SEQUENCE LISTING DATE: 08/30/2006 PATENT APPLICATION: US/10/669,781A TIME: 10:14:34 Input Set: F:\6031.79428 sequence.listing.ST25.txt Output Set: N:\CRF4\08302006\J669781A.raw 682 <221> NAME/KEY: RBS 683 <222> LOCATION: (14)..(19) 685 <220> FEATURE: 686 <221> NAME/KEY: CDS 687 <222> LOCATION: (27)..(50) (E)(-> 689 <400> SEQUENCE: 33 690 gtttctcaat tgaaggagga atttaa atg ctg tcc gat cct tat cat ttt ac 52 Met Leu Ser Asp Pro Tyr His Phe 691 692 E--> 695 <210> SEQ ID NO: SEQ ID NO+34 696 <211> LENGTH: 8 697 <212> TYPE: PRT 698 <213> ORGANISM: Artificial 700 <220> FEATURE: 701 <223> OTHER INFORMATION: Synthetic Construct (14 --> 703 <400> SEQUENCE: 34 705 Met Leu Ser Asp Pro Tyr His Phe 706 1 E--> 709 <210> SEQ ID NO: SEQ ID NO: SEQ ID NO: SEQ ID NO: 35 710 <211> LENGTH: 35 711 <212> TYPE: DNA 712 <213> ORGANISM: Artificial 714 <220> FEATURE: 715 <223> OTHER INFORMATION: Synthesized 718 <220> FEATURE: 719 <221> NAME/KEY: misc feature 720 <222> LOCATION: (6)..(11) 721 <223> OTHER INFORMATION: Sal I site E > 723 <400> SEQUENCE: 35 35 724 aataagtcga cgtacgaccg gattccggct gtgct E--> 727 <210> SEQ ID NO: SEQ-ID NO: 36 728 <211> LENGTH: 34 729 <212> TYPE: DNA

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/669,781A

TIME: 10:14:35

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L:304 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:8
L:310 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:315 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:9
L:325 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:330 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:10
L:340 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:345 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:11
L:355 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:360 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:12
L:366 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:371 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:13
L:377 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:382 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:14
L:392 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:397 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:15
L:403 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:408 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:16
L:414 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:419 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:17
L:425 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:430 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:18
L:436 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:441 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:19
L:447 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:452 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:20
L:458 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:463 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:21
L:473 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:487 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:22
L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:491 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO
L:506 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:23
M:341 Repeated in SeqNo=0
```

VERIFICATION SUMMARY

DATE: 08/30/2006 PATENT APPLICATION: US/10/669,781A TIME: 10:14:35

Input Set : F:\6031.79428 sequence.listing.ST25.txt

Output Set: N:\CRF4\08302006\J669781A.raw

L:510 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO

L:523 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:24

L:527 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO

L:541 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:25